

WHAT IS CLAIMED:

1. A method, comprising:
fusing a nuclear donor cell with an enucleated recipient cell to form
a nuclear transfer embryo; and
- 5 introducing an artificial chromosome into the nuclear transfer
embryo, whereby the resulting nuclear transfer embryo comprises the
artificial chromosome, wherein:
introduction into the nuclear transfer embryo is effected by
introducing the artificial chromosome into a donor cell or enucleated
10 recipient prior to fusing a nuclear donor cell with an enucleated recipient
cell, or is introduced into the embryo after fusing a nuclear donor cell with
an enucleated recipient cell.
2. The method of claim 1, wherein the artificial chromosome is
a minichromosome or a satellite artificial chromosome.
- 15 3. The method of claim 1, further comprising:
activating the nuclear transfer embryo; and
transferring the nuclear transfer embryo into a maternal host
animal.
4. The method of claim 3, further comprising:
20 permitting the transferred nuclear transfer embryo to develop
into an animal in the host.
5. The method of claim 4, wherein the artificial chromosome
comprises heterologous DNA that encodes a gene product.
6. The method of claim 3, wherein the host is selected from
25 among a cow, goat, mouse, ox, camel, pig and sheep.
7. The method of claim 5, wherein the resulting animal
expresses the gene product in its milk.
8. The method of claim 1, wherein the artificial chromosome is
introduced into the nuclear donor cell prior to fusion of the nuclear donor
30 cell with the enucleated recipient cell.

9. The method of claim 1, wherein the artificial chromosome is introduced into the enucleated recipient cell prior to fusion of the nuclear donor cell with the enucleated recipient cell.

10. The method of claim 1, wherein the artificial chromosome is introduced into the nuclear transfer embryo after fusion of the nuclear donor cell with the enucleated recipient cell.

11. The method of claim 1, wherein the artificial chromosome is a satellite artificial chromosome.

12. The method of claim 2, wherein the artificial chromosome is a satellite artificial chromosome.

13. The method of claim 3, wherein the artificial chromosome is a satellite artificial chromosome.

14. The method of claim 4, wherein the artificial chromosome is a satellite artificial chromosome.

15. The method of claim 5, wherein the artificial chromosome is a satellite artificial chromosome.

16. The method of claim 6, wherein the artificial chromosome is introduced into the nuclear donor cell by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

17. The method of claim 9, wherein the artificial chromosome is introduced into the nuclear donor cell by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

18. The method of claim 10, wherein the artificial chromosome is introduced into the embryo by a method selected from among direct uptake, microinjection, cell fusion, microcell fusion, electroporation, electrofusion, projectile bombardment, calcium phosphate precipitation and lipid-mediated transfer.

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Variable	Mean	SD	Min	Max	Skewness	Kurtosis	Shapiro-Wilk	Normality
Age	35.2	12.5	18	65	0.15	3.2	0.98	0.95
Gender	1.2	0.4	1	2	0.05	1.8	0.99	0.98
Education	12.5	2.1	9	16	0.25	2.5	0.97	0.94
Income	2500	1500	500	6000	0.35	3.5	0.96	0.93
Marital Status	1.5	0.5	1	2	0.10	2.0	0.99	0.97
Occupation	2.5	1.2	1	4	0.20	2.8	0.97	0.94
Health Status	1.8	0.6	1	2	0.12	2.2	0.98	0.96
Stress Level	3.2	1.5	1	5	0.30	3.0	0.95	0.92
Life Satisfaction	4.5	1.0	3	6	0.18	2.8	0.97	0.95
Resilience	2.8	1.2	1	5	0.22	2.6	0.97	0.94
Emotional Stability	3.5	1.1	2	5	0.15	2.9	0.97	0.95
Physical Health	2.0	0.8	1	3	0.10	2.1	0.98	0.96
Mental Health	2.5	1.0	1	4	0.20	2.7	0.97	0.94
Social Support	3.0	1.2	1	5	0.25	2.9	0.96	0.93
Life Events	1.5	0.8	1	3	0.15	2.3	0.98	0.96
Personal Growth	3.8	1.1	2	5	0.18	2.8	0.97	0.95
Work-Life Balance	2.2	0.9	1	3	0.12	2.4	0.98	0.96
Financial Stability	2.8	1.0	1	4	0.20	2.7	0.97	0.94
Relationship Satisfaction	3.5	1.1	2	5	0.15	2.9	0.97	0.95
Overall Well-being	3.2	1.2	1	5	0.25	3.0	0.96	0.93